

## Message Text

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61  
ORIGIN EUR-12

INFO OCT-01 EA-06 ISO-00 PM-03 NSC-05 SP-02 SS-15 L-02

CG-00 DOTE-00 CIAE-00 DODE-00 INR-07 NSAE-00 PA-01

USIA-06 PRS-01 EB-07 /068 R

DRAFTED BY DOD/ISA:JANNUNZIATA:EUR/NE:WABUELL:B

APPROVED BY EUR:RVINE  
PM:MPASZTALANIEC  
COAST GUARD:DHAISLIP

----- 110928

R 281911Z FEB 75  
FM SECSTATE WASHDC  
TO AMEMBASSY OSLO  
INFO AMEMBASSY CANBERRA  
SECDEF

C O N F I D E N T I A L STATE 045667

E.O. 11652: GDS

TAGS: ETEL, MARR, NO

SUBJECT: EXPOSE OF NORWAY'S ACQUISITION OF LORAN AND OMEGA  
SYSTEMS

REF: OSLO 0673

1. REFTEL ADVISED THAT CHIEF OF FORMIN'S NATO SECTION,  
FREIHOW, WOULD LIKE TO STATE PUBLICLY, IF PRESSED, THAT  
LORAN C AND OMEGA HAVE BEEN USED BY THE MERCHANT MARINE  
SINCE THE ORIGINAL AGREEMENTS WERE SIGNED. OUR INFORMATION  
REVEALS THAT THIS DOD RESEARCH AND DEVELOPMENT PROGRAM WAS  
DECLARED OPERATIONAL BY THE SECRETARY OF DEFENSE IN OCTOBER  
1967. THIS INCLUDED THE THEN EXISTING FOUR OMEGA TRANS-  
MITTING STATIONS, INCLUDING THAT LOCATED IN NORWAY. MER-  
CHANT MARINE USE OF OMEGA FOLLOWED THEREAFTER AS ENOUGH  
RECEIVERS WERE MANUFACTURED AND BECAME AVAILABLE TO THE  
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CIVILIAN SECTOR. OMEGA WAS NOT USEABLE THEN AND IS NOT

USEABLE NOW FOR SSBN MISSILE LAUNCH PURPOSES.

2. THE INITIAL USE OF THE LORAN C NETWORK WAS BY THE MILITARY, WITH CIVILIAN USE DEVELOPING LATER. THIS PATTERN HAS BEEN CUSTOMARY WITH THE DEVELOPMENT OF MOST RADIO NAVIGATION SYSTEMS.

3. FREIHOW ALSO INQUIRED WHETHER, AT THE TIME THE AGREEMENTS WERE SIGNED, NUCLEAR SUBMARINES DEPENDED ENTIRELY ON LORAN C FOR NAVIGATION. AT THE TIME THE AGREEMENTS WERE SIGNED AND TODAY, NUCLEAR SUBMARINES HAVE USED A VARIETY OF NAVIGATION SYSTEMS FOR NAVIGATIONAL DATA. EVEN AS FAR BACK AS THE INTRODUCTION OF THE POLARIS PROGRAM, FLEET BALLISTIC MISSILE SUBMARINES (SSBNS) HAD MULTIPLE MEANS OF OBTAINING NAVIGATIONAL INFORMATION OF SUFFICIENT ACCURACY TO SUPPORT MISSILE LAUNCH REQUIREMENTS. IN SUCCEEDING YEARS THE NUMBER OF SOURCES FOR OBTAINING NAVIGATIONAL FIXES HAS INCREASED, PARTICULARLY WITH THE ADVENT OF THE NAVY NAVIGATION SATELLITE SYSTEM IN 1965.

4. YOU MAY DRAW UPON THE PRECEDING IN RESPONDING TO FREIHOW'S QUERIES. WHILE WE WOULD PREFER THAT THE INFORMATION HEREIN PROVIDED NOT BE MADE PUBLIC BY THE EMBASSY, FREIHOW MAY USE IT IN RESPONSE TO FURTHER INQUIRIES. KISSINGER

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NNN

## Message Attributes

**Automatic Decaptioning:** X  
**Capture Date:** 01 JAN 1994  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** OMEGA TARGETING SYSTEM, NAVIGATION SATELLITES, LORAN  
**Control Number:** n/a  
**Copy:** SINGLE  
**Draft Date:** 28 FEB 1975  
**Decaption Date:** 01 JAN 1960  
**Decaption Note:**  
**Disposition Action:** RELEASED  
**Disposition Approved on Date:**  
**Disposition Authority:** greenet  
**Disposition Case Number:** n/a  
**Disposition Comment:** 25 YEAR REVIEW  
**Disposition Date:** 28 MAY 2004  
**Disposition Event:**  
**Disposition History:** n/a  
**Disposition Reason:**  
**Disposition Remarks:**  
**Document Number:** 1975STATE045667  
**Document Source:** CORE  
**Document Unique ID:** 00  
**Drafter:** JANNUNZIATA:EUR/NE:WABUELL:B  
**Enclosure:** n/a  
**Executive Order:** GS  
**Errors:** N/A  
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**Office:** ORIGIN EUR  
**Original Classification:** CONFIDENTIAL  
**Original Handling Restrictions:** n/a  
**Original Previous Classification:** n/a  
**Original Previous Handling Restrictions:** n/a  
**Page Count:** 2  
**Previous Channel Indicators:** n/a  
**Previous Classification:** CONFIDENTIAL  
**Previous Handling Restrictions:** n/a  
**Reference:** 75 OSLO 0673  
**Review Action:** RELEASED, APPROVED  
**Review Authority:** greenet  
**Review Comment:** n/a  
**Review Content Flags:**  
**Review Date:** 09 JUN 2003  
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**Review Transfer Date:**  
**Review Withdrawn Fields:** n/a  
**Secure:** OPEN  
**Status:** NATIVE  
**Subject:** EXPOSE OF NORWAY'S ACQUISITION OF LORAN AND OMEGA SYSTEMS  
**TAGS:** ETEL, MARR, NO  
**To:** OSLO  
**Type:** TE  
**Markings:** Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 05 JUL 2006